

**Figure 1**

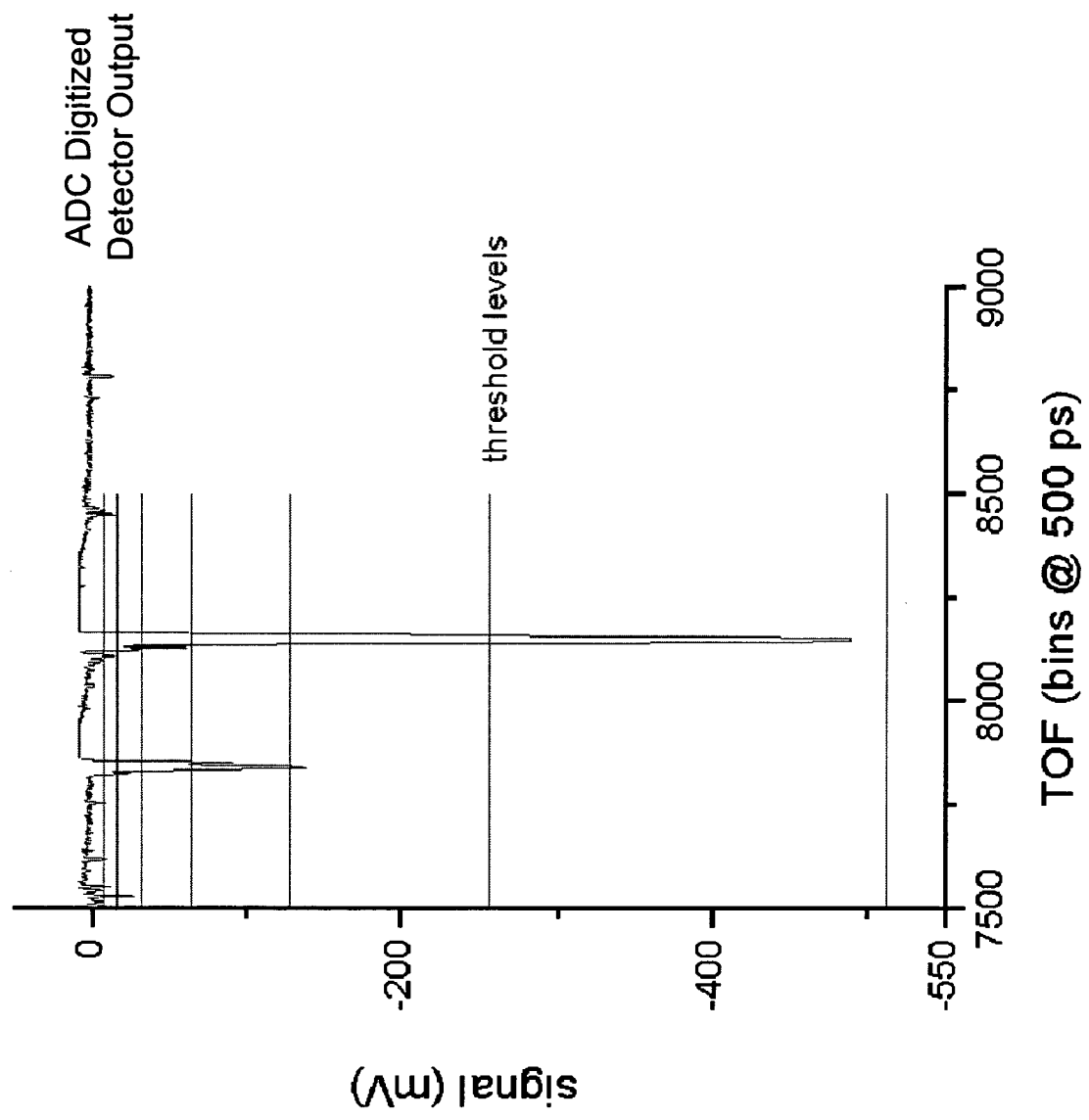


Figure 2

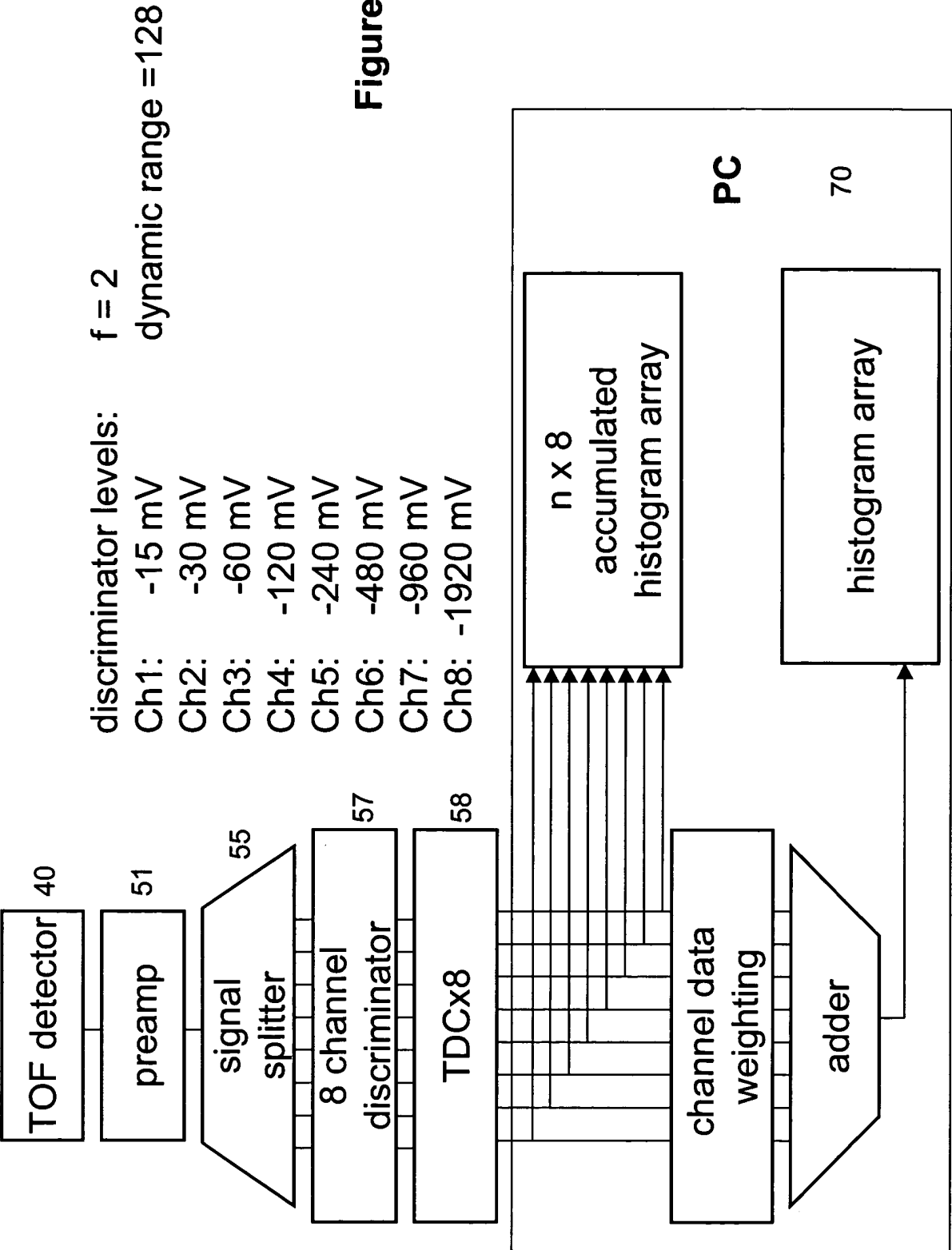


Figure 3

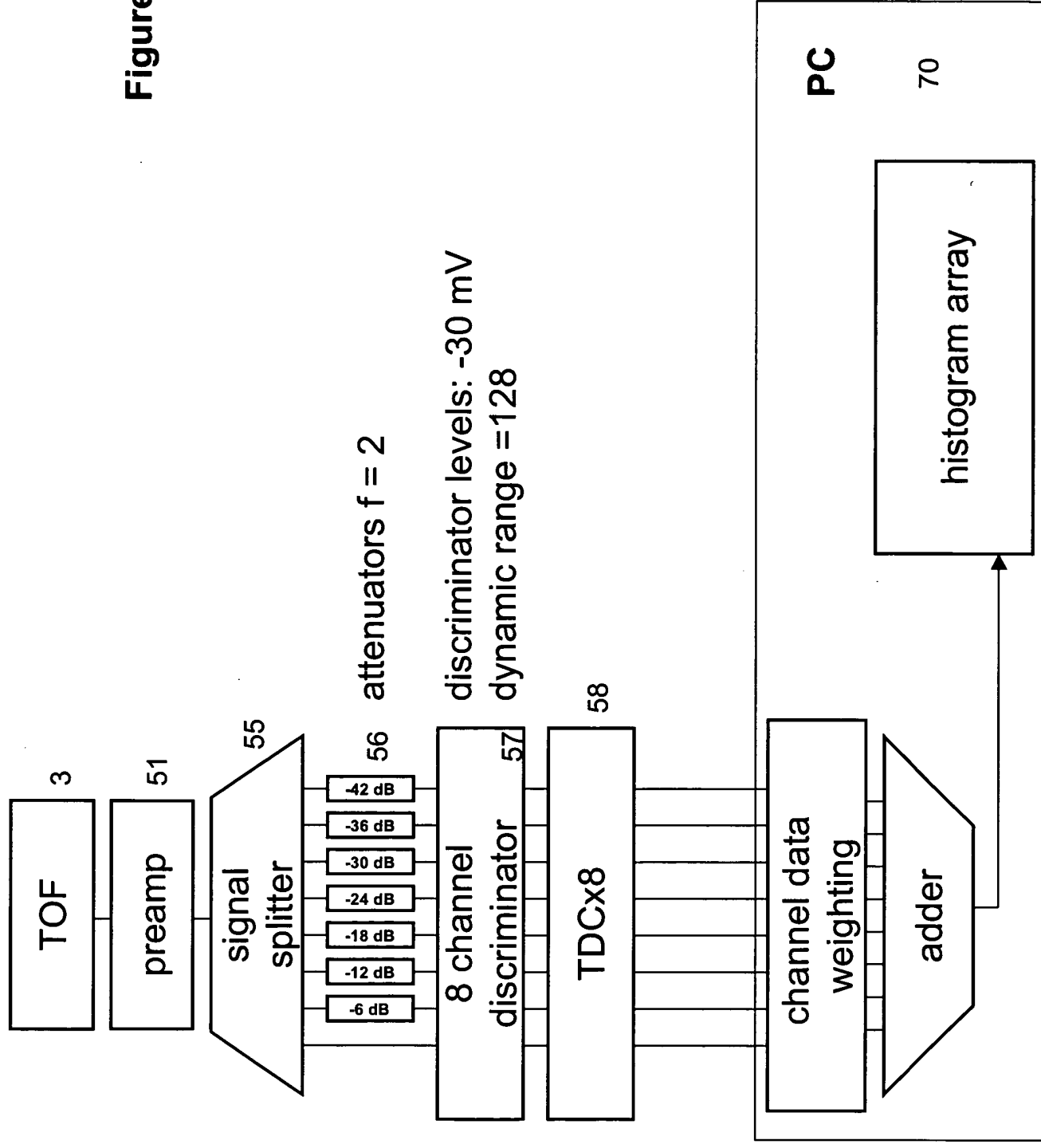
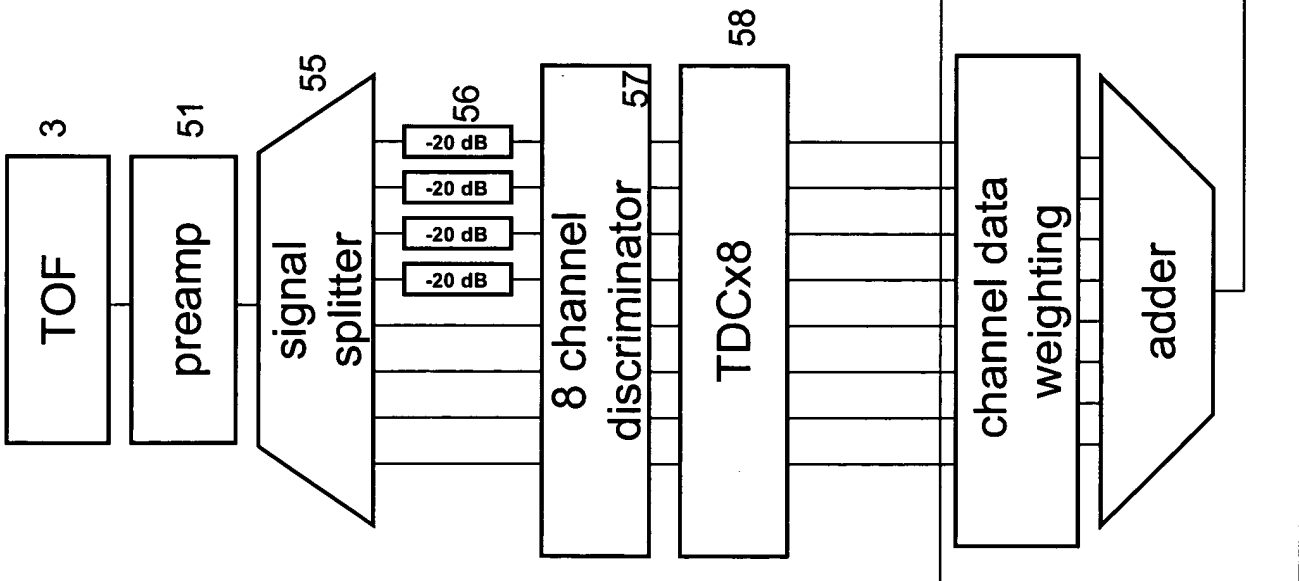


Figure 4



f = 2

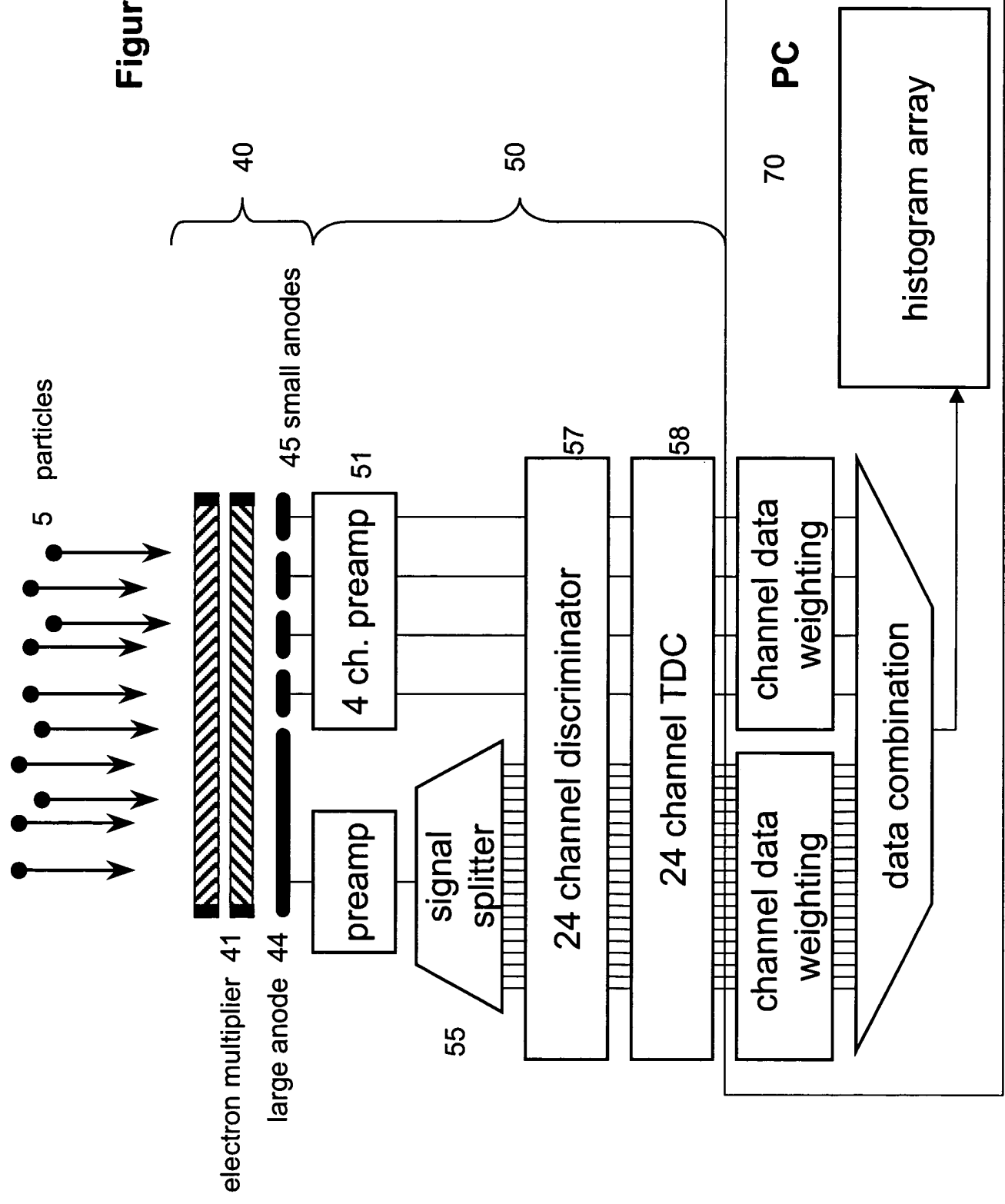
dynamic range =128

discriminator levels:

- Ch1: -30 mV
- Ch2: -60 mV
- Ch3: -120 mV
- Ch4: -240 mV
- Ch5: -48 mV
- Ch6: -96 mV
- Ch7: -192 mV
- Ch8: -384 mV

Figure 5

## Figure 6



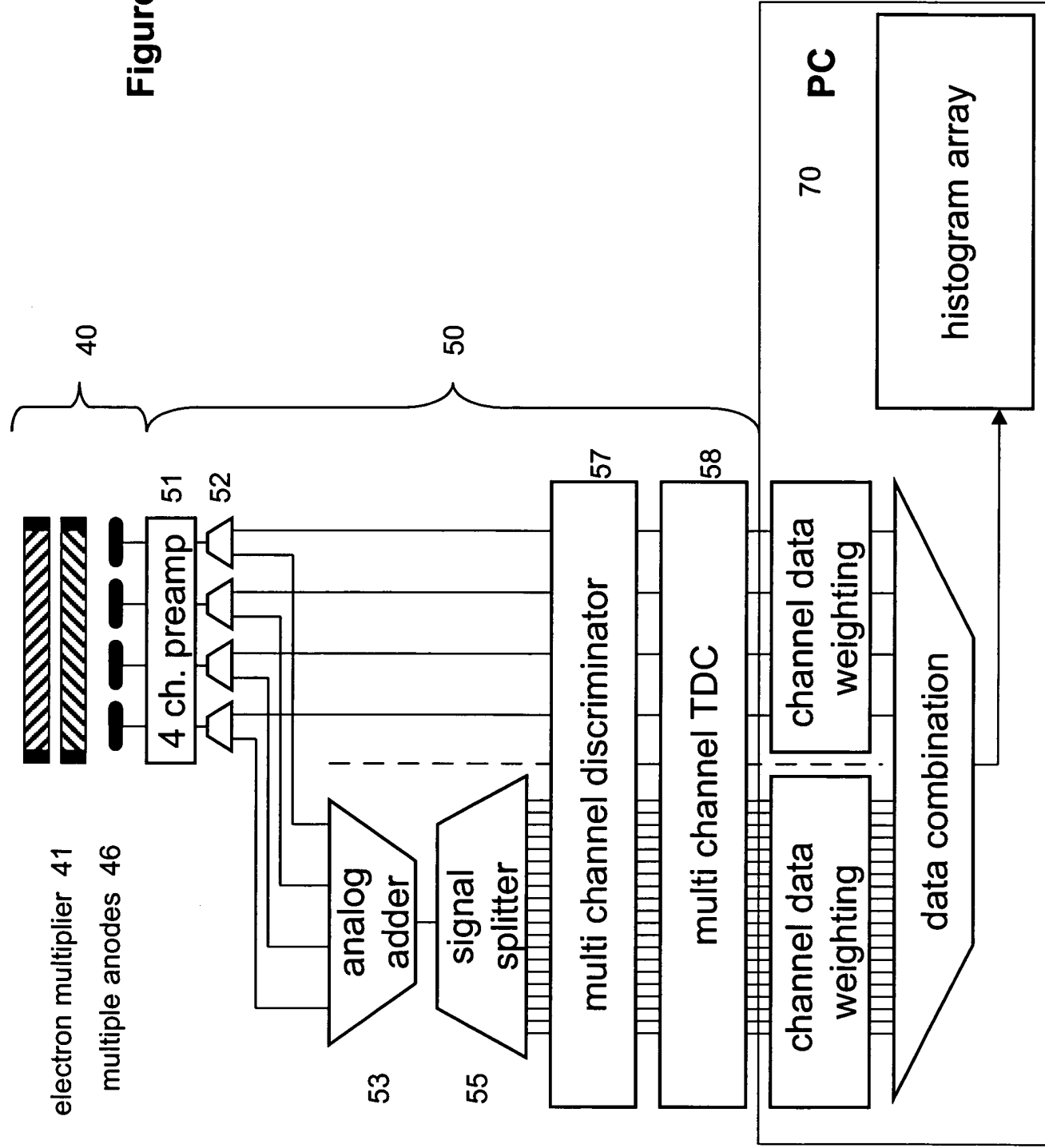
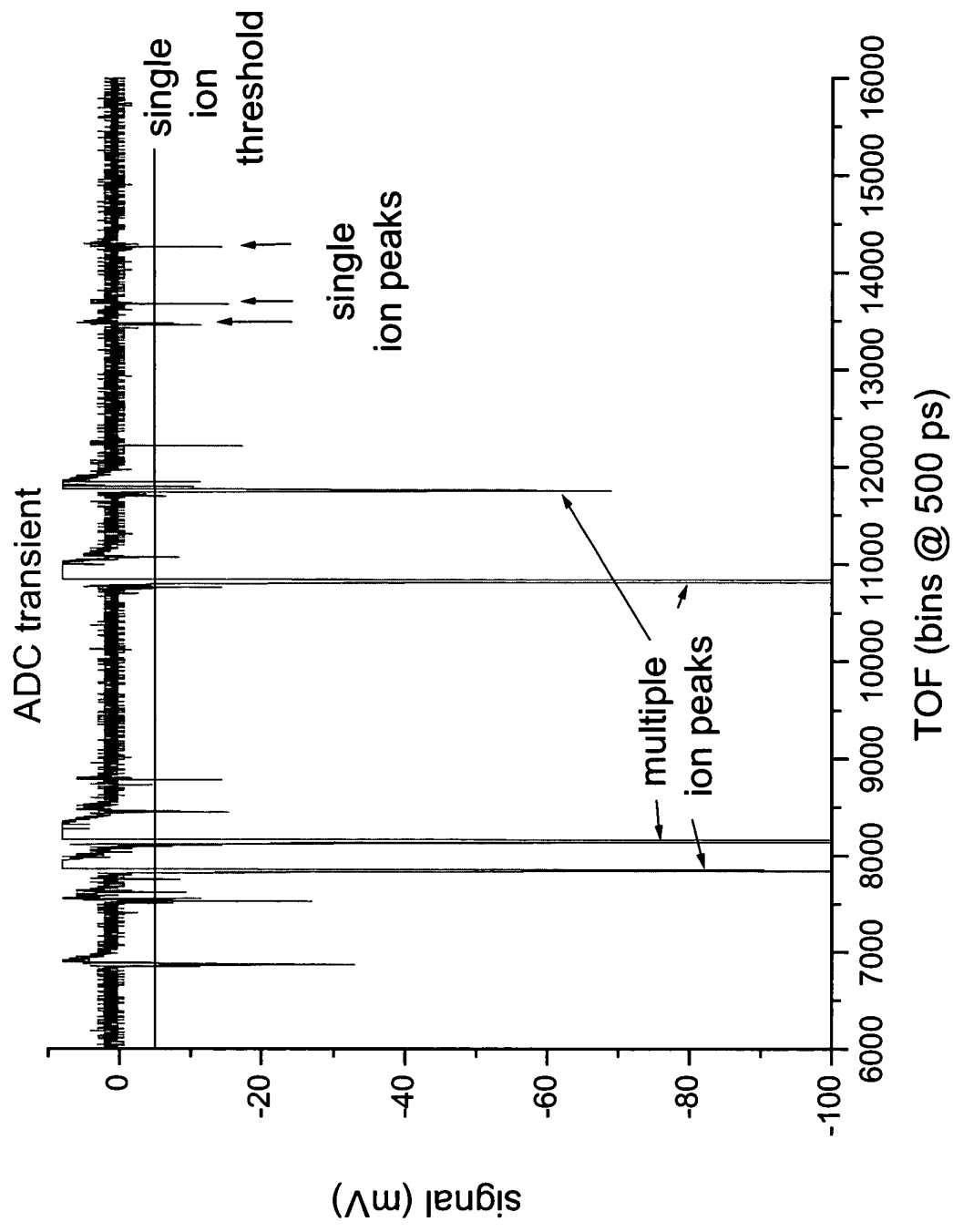


Figure 7

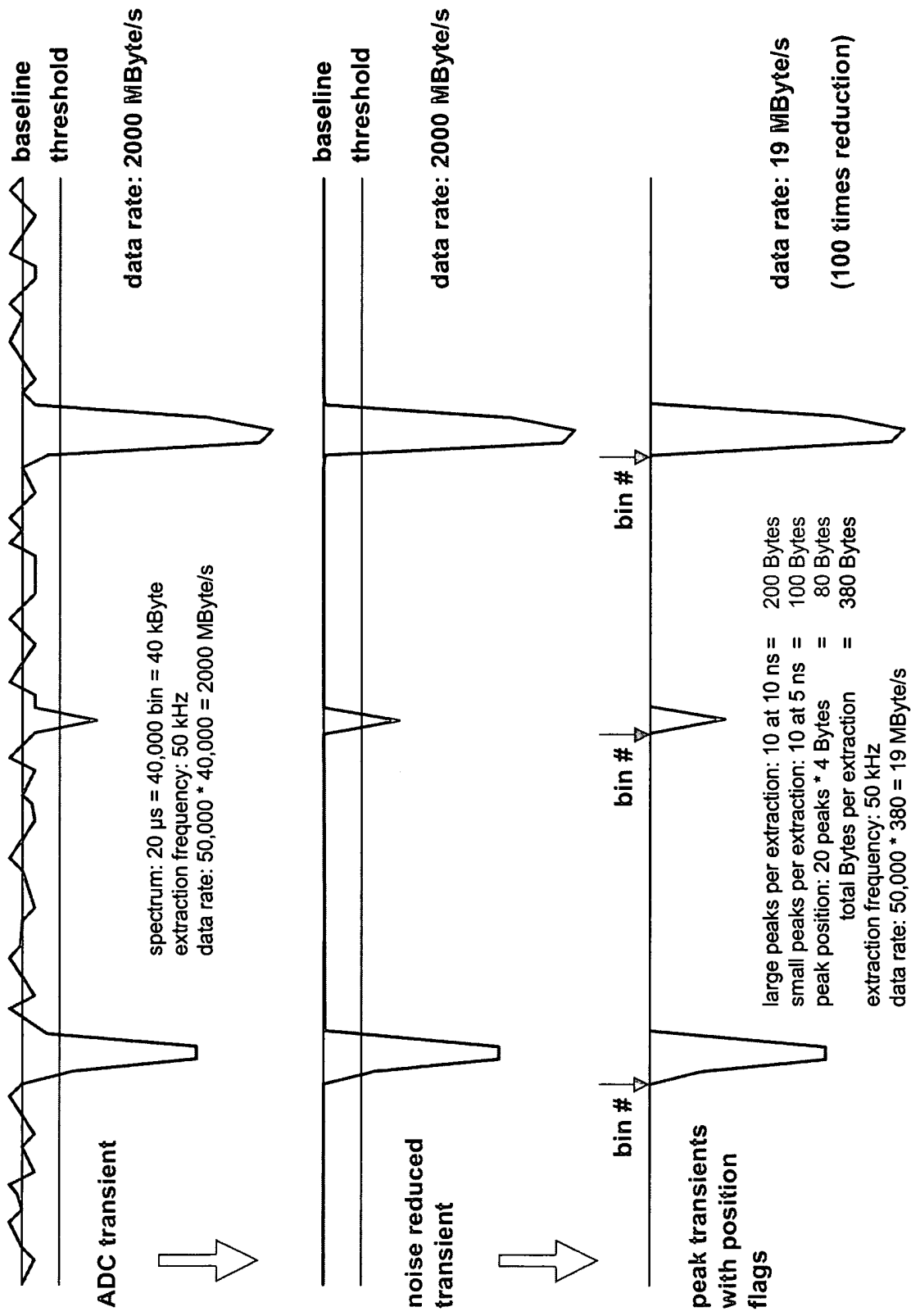
dynamic ratio	accuracy					
	100%	50%	30%	20%	10%	5%
4	27	8.00	4.10	2.74	1.73	1.33
8	2,187	128.00	26.84	10.54	3.58	1.95
16	14,348,907	32,768.00	1,152.92	155.57	15.41	4.18
20	1.16E+09	524,288.00	7,555.79	597.63	31.95	6.12
24	9.41E+10	8,388,608.00	49,517.60	2,295.86	66.25	8.95
32	6.18E+14	2.15E+09	2.13E+06	3.39E+04	284.85	19.19
40	4.05E+18	5.50E+11	9.13E+07	5.00E+05	1,224.81	41.14
48	2.66E+22	1.41E+14	3.92E+09	7.38E+06	5,266.46	88.20

## Figure 8





**Figure 9**



**Figure 10**

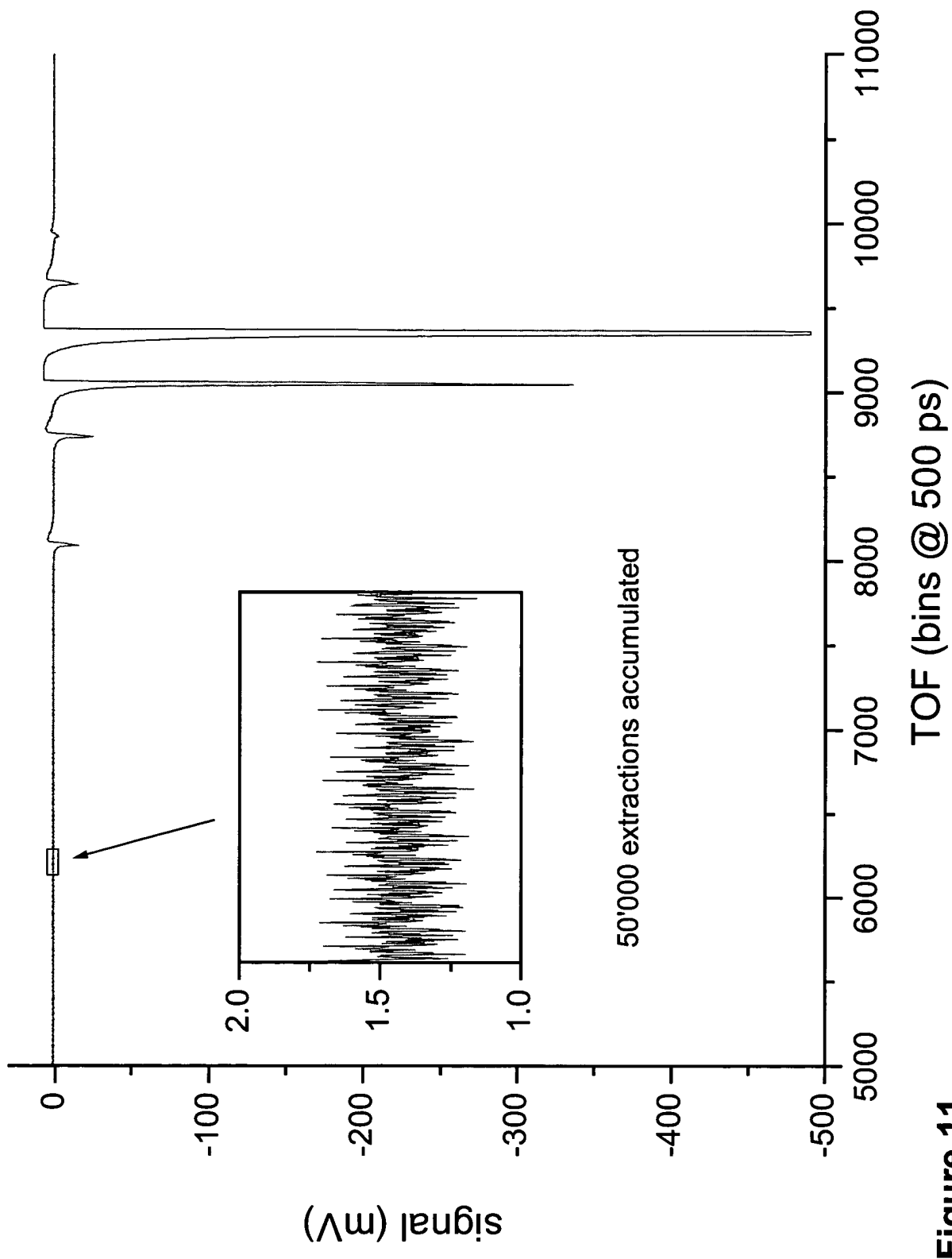
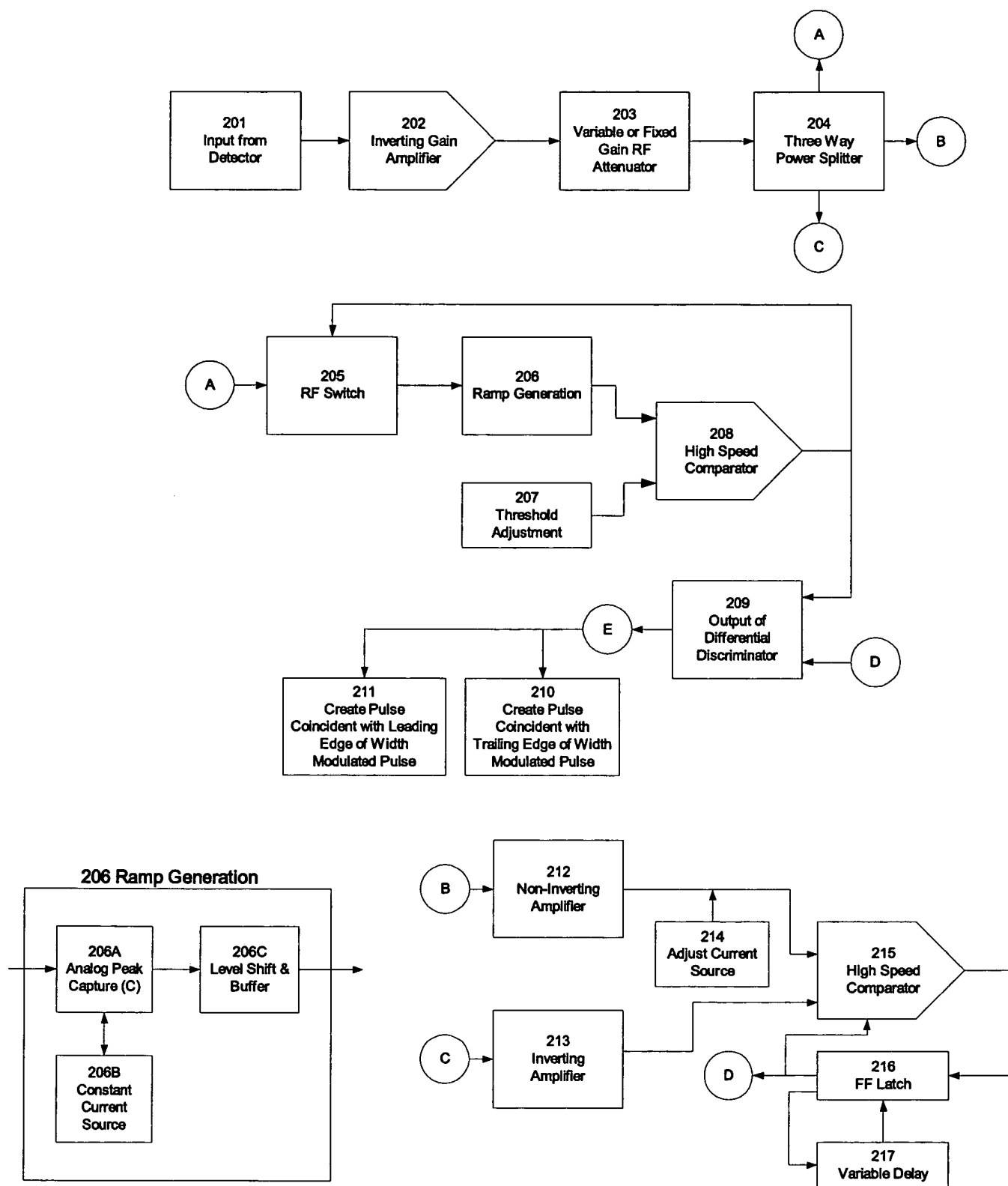
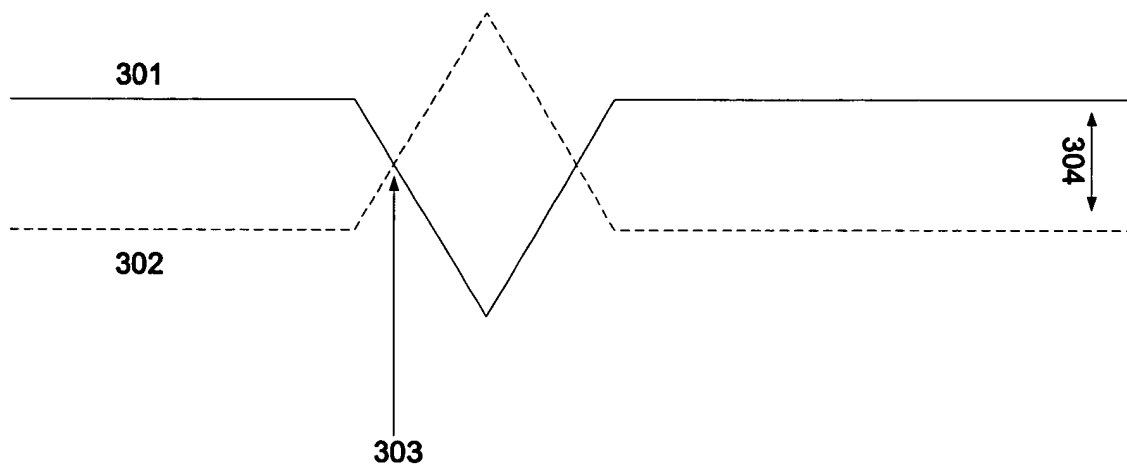


Figure 11



**FIGURE 12**



**FIGURE 13**

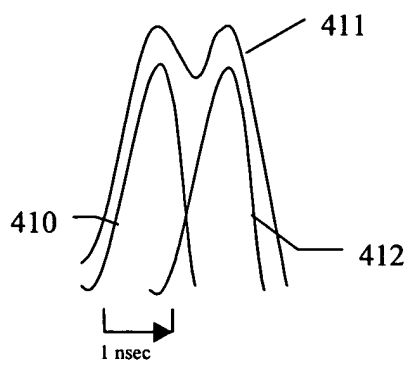


FIGURE 14

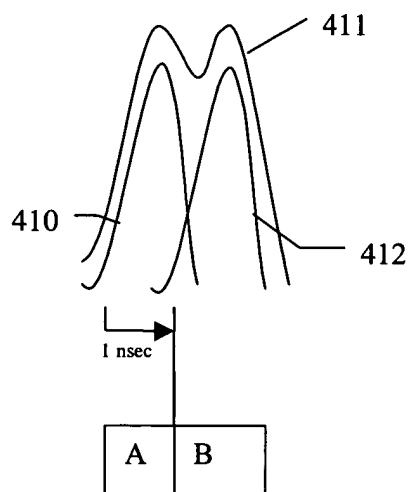
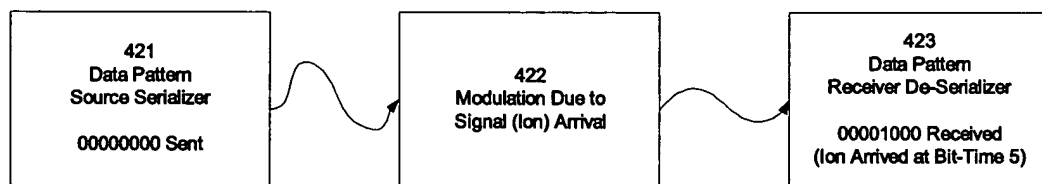


FIGURE 15



**FIGURE 16**

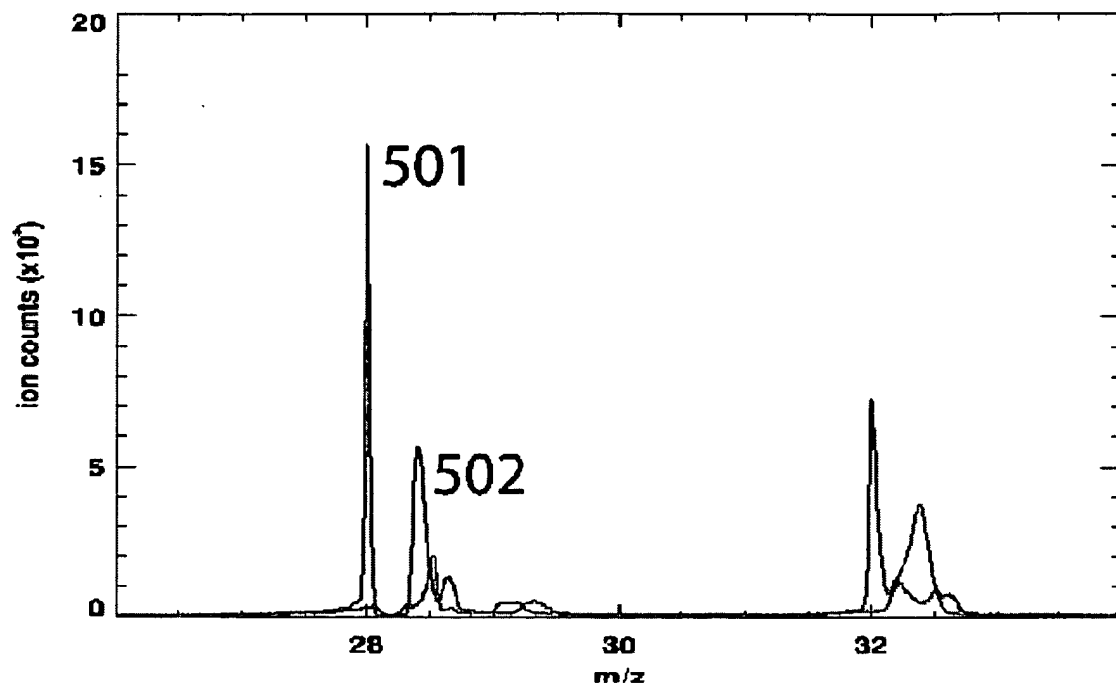


FIGURE 17

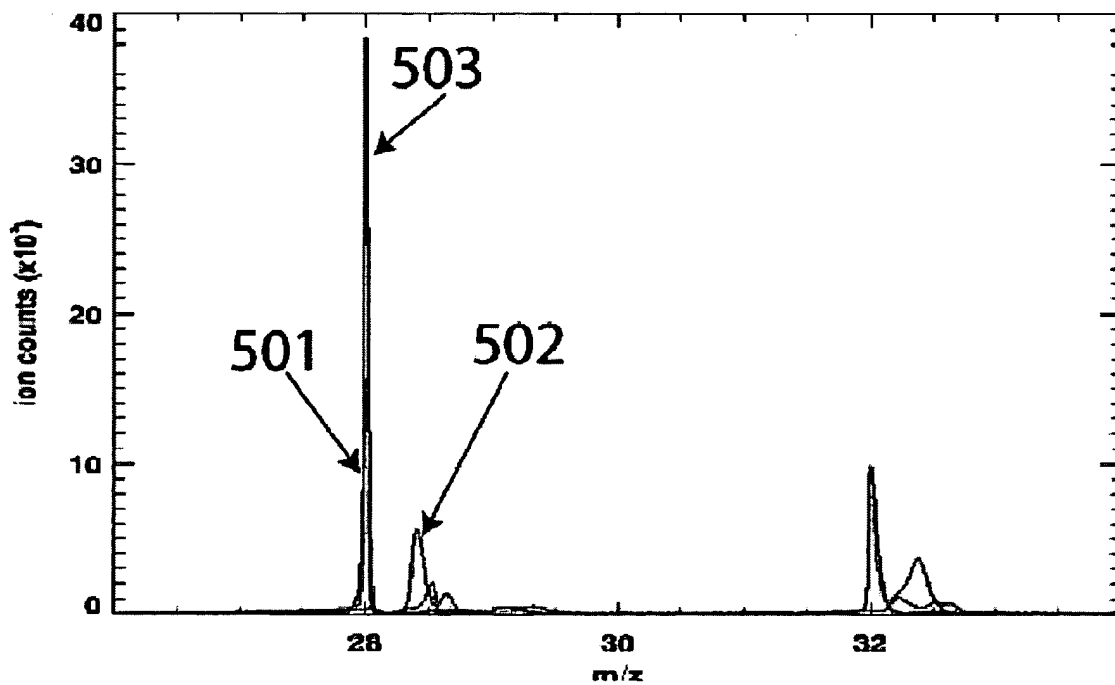


FIGURE 18



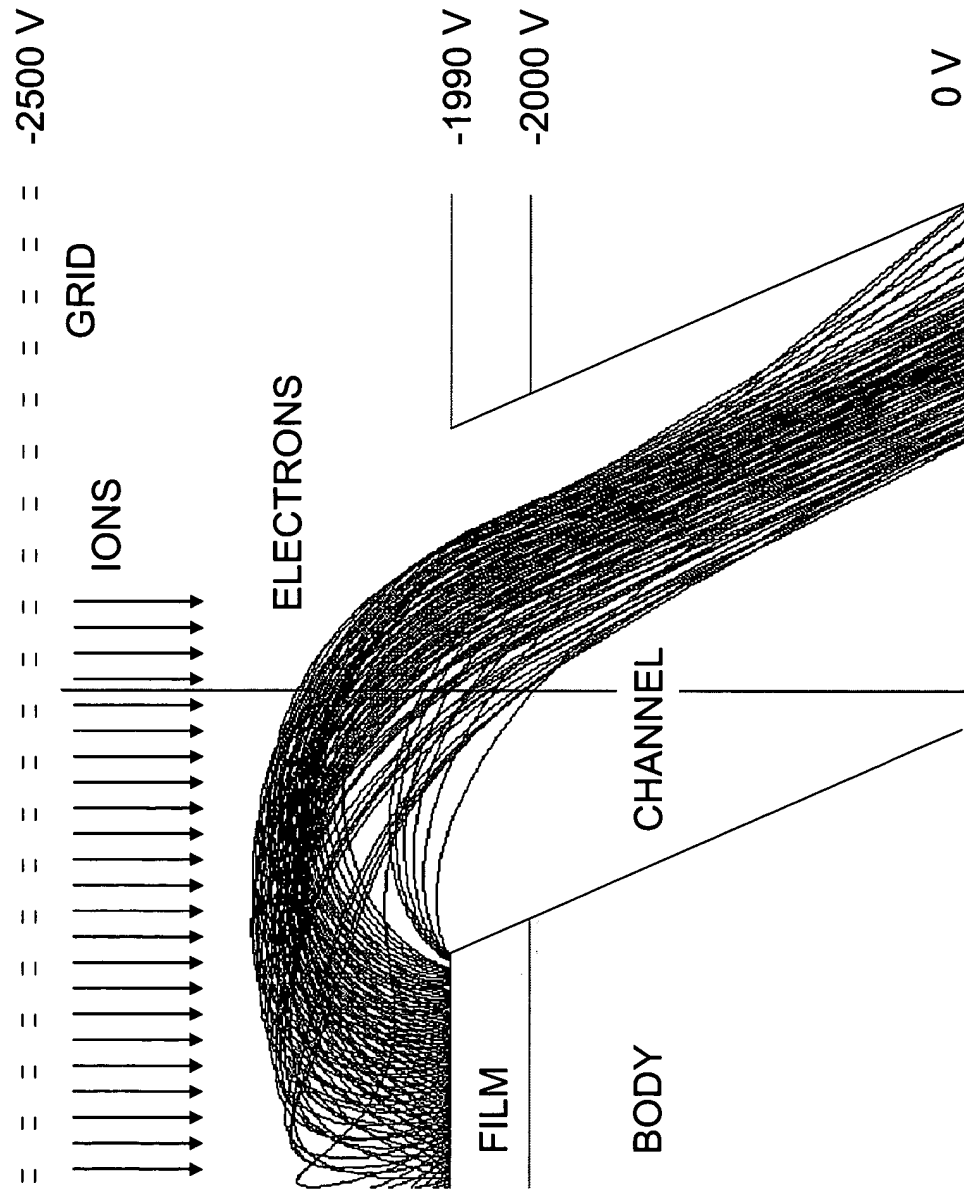
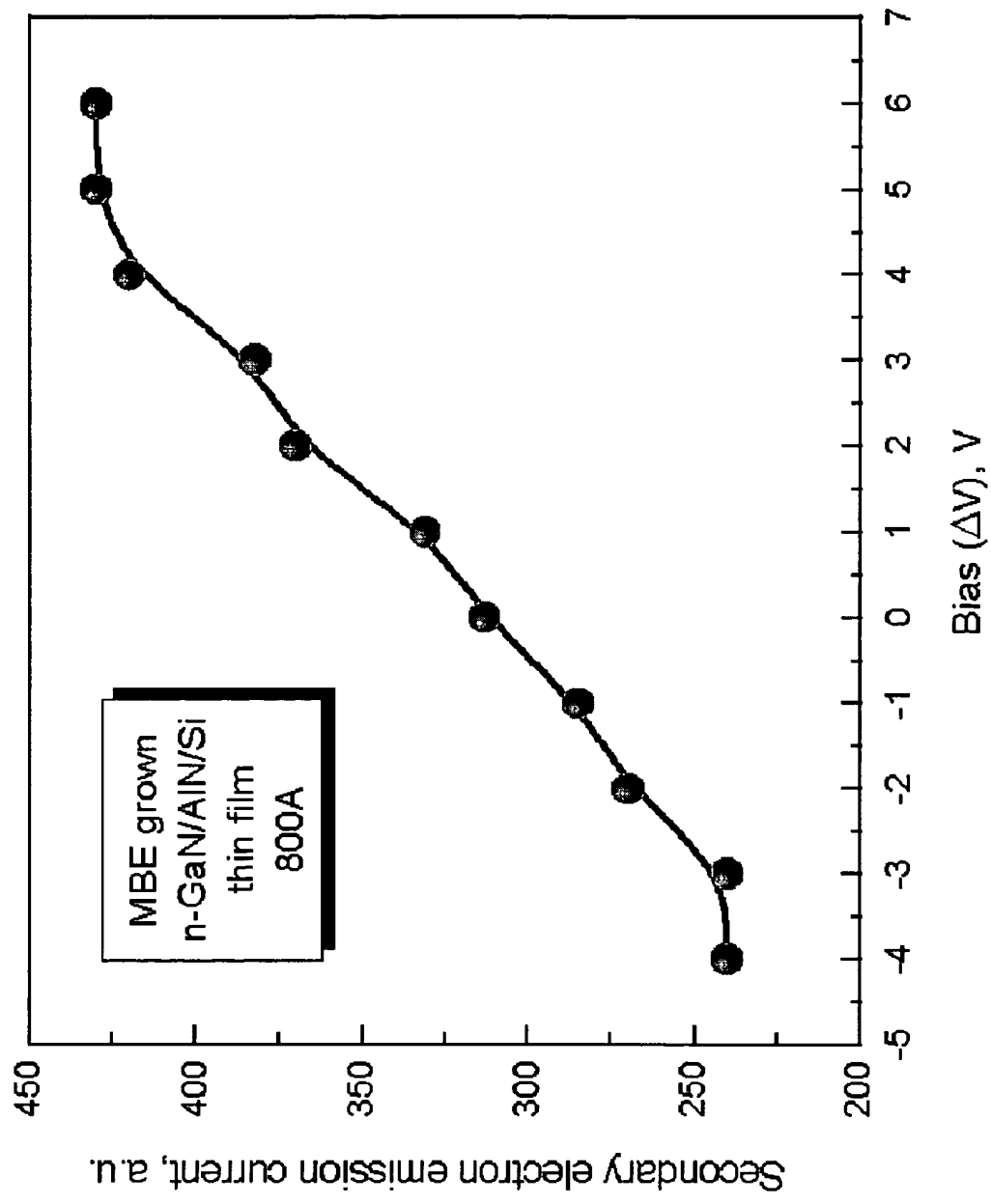


Figure 19



**Figure 20**

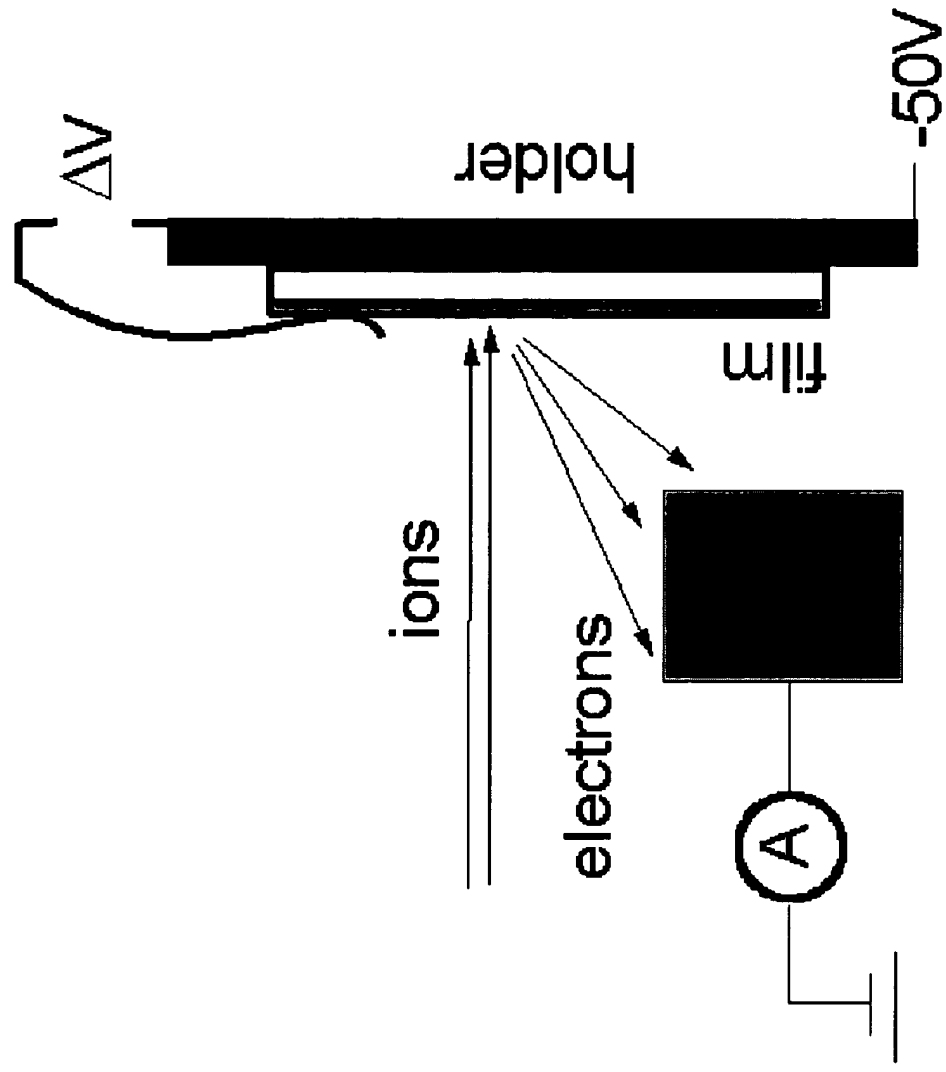
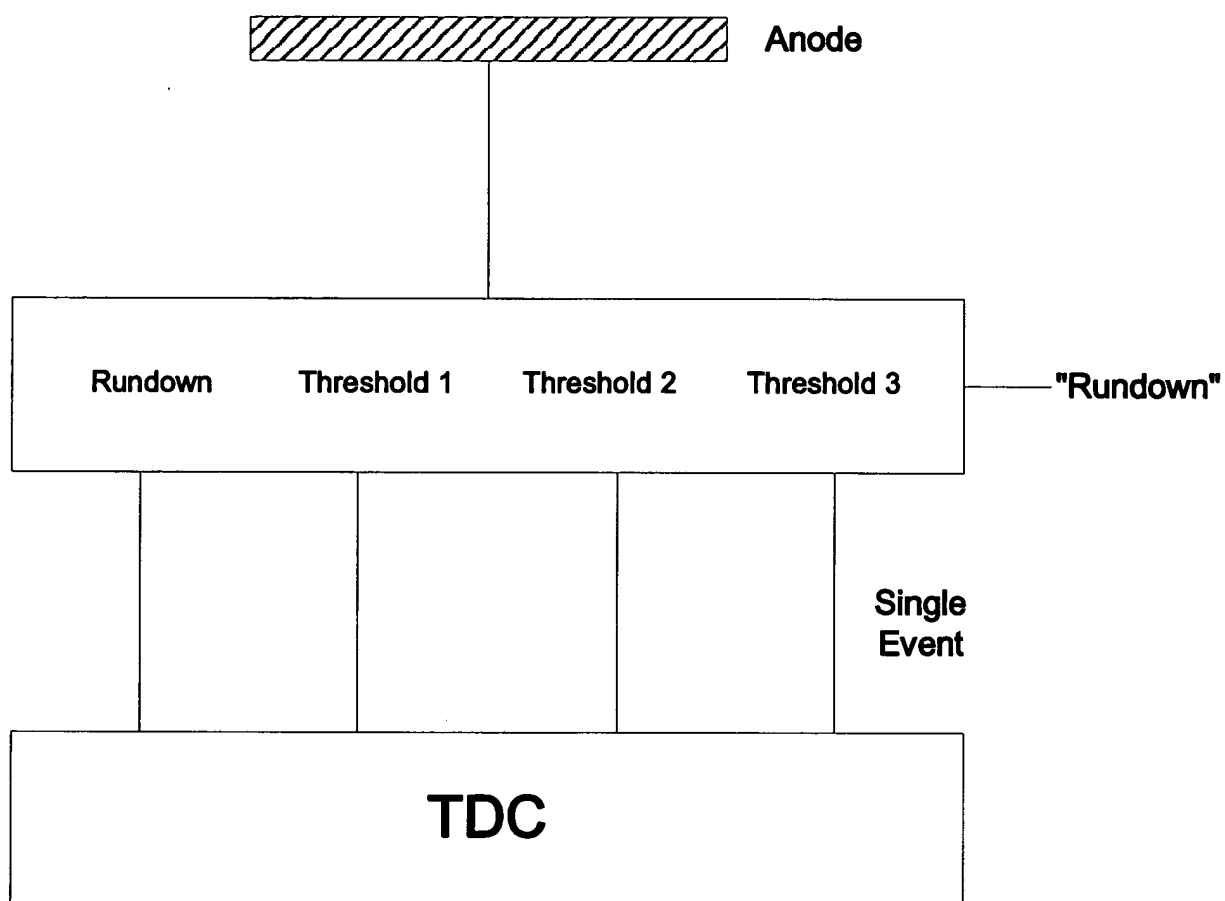


Figure 21



**FIGURE 22**

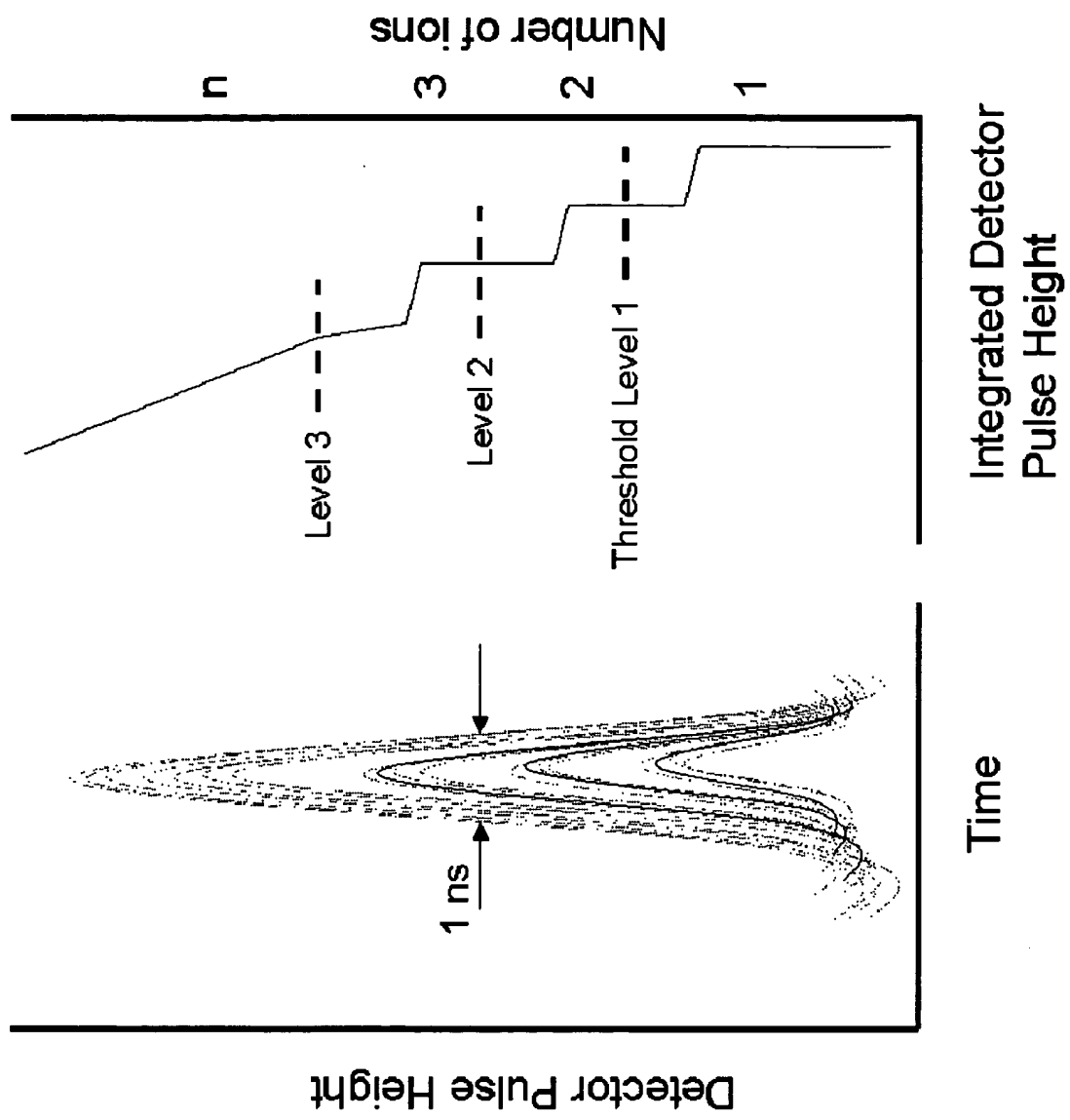


Figure 23

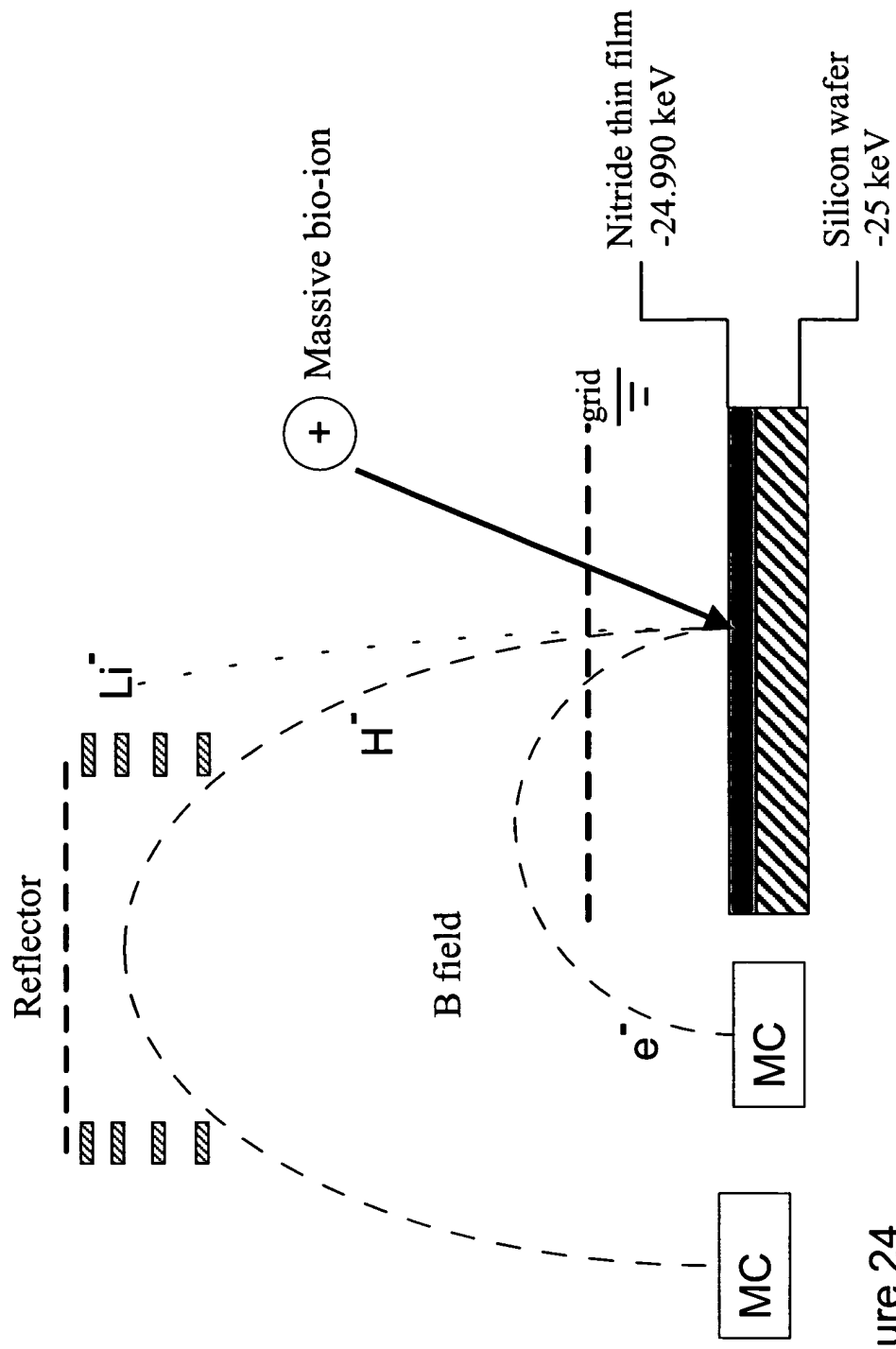


Figure 24